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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO				Application Number	10/079,061
				Filing Date	2/20/02
				First Name of Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	DA
Sheet	1	of	1	Attorney Docket Number	SPLX.P0126

U.S. PATENTS RELATED TO THE PRESENT APPLICATIONS

Examiner Initials	Cite No. ¹	U.S. Patent Document Number		Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Relation to Present Application
	1.	6,516,455		B1 Teig, et al.	02-04-03	CIP of parent application

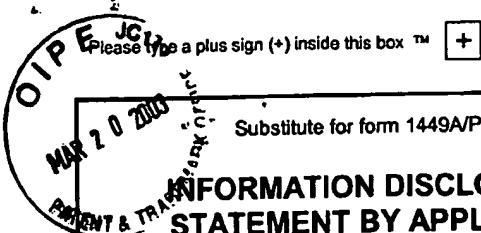
U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document Number		Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DA	2.	2001/0003843	A1	Scepanovic et al.	06-14-01	
	3.	4,615,011		Linsker	09-30-86	
	4.	5,097,422		Corbin, II et al.	03-17-92	
	5.	5,532,934		Rostoker	07-12-96	
	6.	5,566,078		Ding et al.	10-15-96	
	7.	5,578,840		Scepanovic et al.	11-26-96	
	8.	5,634,093		Ashida et al.	05-27-97	
	9.	5,636,125		Rostoker et al.	06-03-97	
	10.	5,650,653		Rostoker et al.	07-22-97	
	11.	5,742,086		Rostoker et al.	04-21-98	
	12.	5,757,656		Hershberger et al.	05-26-98	
	13.	5,777,360		Rostoker et al.	07-07-98	
	14.	5,811,863		Rostoker et al.	09-22-98	
	15.	5,822,214		Rostoker et al.	10-13-98	
	16.	5,859,449		Kobayashi et al.	01-12-99	
	17.	5,898,597		Scepanovic et al.	04-27-99	
	18.	5,914,887		Scepanovic et al.	06-22-99	
	19.	5,973,376		Rostoker et al.	10-26-99	
	20.	6,035,108		Kikuchi	03-07-00	
	21.	6,058,254		Scepanovic et al.	05-02-00	
DA	22.	6,068,662		Scepanovic et al.	05-30-00	

Examiner Signature	<i>Murphy</i>	Date Considered	8-25-04
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• EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449A/PTO
**INFORMATION DISCLOSURE
 STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet	2	of	2	Attorney Docket Number	SPLX.P0126
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U.S. PATENTS RELATED TO THE PRESENT APPLICATIONS					
TD	23.	6,123,736		Pavisic et al.	09-26-00
	24.	6,134,702		Scepanovic et al.	10-17-00
	25.	6,155,725		Scepanovic et al.	12-05-00
	26.	6,175,950		Scepanovic et al.	01-16-01
	27.	6,216,252	B1	Dangelo et al.	04-10-01
	28.	6,230,306	B1	Raspopovic et al.	05-08-01
	29.	6,247,167	B1	Raspopovic et al.	06-12-01
	30.	6,249,902	B1	Igusa et al.	06-19-01
	31.	6,260,179	B1	Ohsawa et al.	07-10-01
	32.	6,262,487	B1	Igarashi et al.	07-17-01
	33.	6,289,495	B1	Raspopovic et al.	09-11-01
	34.	6,301,686	B1	Kikuchi et al.	10-09-01
	35.	6,385,758	B1	Kikuchi et al.	05-07-02
	36.	6,401,234	B1	Alpert et al.	06-04-02
	37.	6,405,358	B1	Nuber	06-11-02
	38.	6,412,097	B1	Kikuchi et al.	06-25-02
	39.	6,436,804	B2	Igarashi et al.	08-20-02
TD	40.	6,463,575	B1	Takahashi	10-08-02

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FOREIGN PATENT DOCUMENTS						
Examiner* Initials	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TD	41.	Office ³ Number ⁴		Kikuchi et al.	01-19-89	

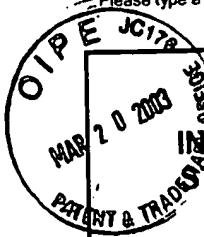
NON PATENT LITERATURE DOCUMENTS						
Examiner* Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				

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⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO				Application Number	10/079,061
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	2/20/02
(use as many sheets as necessary)				First Named Inventor	Steven Teig
Sheet	3	of	3	Group Art Unit	2825
				Examiner Name	<i>[Signature]</i>
				Attorney Docket Number	SPLX.P0126

NON PATENT LITERATURE DOCUMENTS

TD	42.	A.H. Farrahi et al., Quality of EDA CAD Tools: Definitions, Metrics and Directions, Quality Electronic Design, 2000, Proceedings of the first International Symposium on March 2000, pp 395-405.
TD	43.	C. Chiang, et al., Wirability of Knock-Knee Layouts with 45° Wires, IEEE Transactions on Circuits and Systems, Vol. 38, Issue 6, pp 613-624, June 1991.
TD	44.	J. Su et al., Post-Route Optimization for Improved Yield Using Rubber-Band Wiring Model, 1997 International Conference on Computer-Aided Design, pp 700-706, November 1997.
TP	45.	J. Vicente, RSR: A New Rectilinear Steiner Minimum Tree Approximation for FPGA Placement and Global Routing, Proceedings of the 24 th Euro Micro Conference, pp 192-195, August 1998.
TD	46.	K. Powers et al., The 60° Grid: Routing Channels in Width d/square root 3, VLSI, 1991, Proceedings., First Great Lakes Symposium on Kalamazoo, MI, USA, pp 214-291, March 1991.
TD	47.	M. Alexander et al., Performance-Oriented Placement and Routing for field-programmable gate arrays, Proceedings of the European Design Automation Conference, pages 80-85, 1995.
TD	48.	M. Alexander et al., Placement and Routing for Performance-Oriented FPGA Layout, VLSI Design, Vol. 7, No. 1, 1998.
TD	49.	M. Igarashi et al., A Diagonal-Interconnect Architecture and Its Application to RISC Core Design, 2002 IEEE Solid-State Circuits Conference, pp 210-460, February 2002.
TD	50.	P. Dood, et al. A Two-Dimensional Topological Compactor with Octagonal Geometry, 28 th ACM/IEEE Design Automation Conference, pp 727-731, July 1991.
TD	51.	P. Parikh, et al., Congestion Driven Quadratic Placement, Proceedings of Design Automation Conference, 1998, pp 275-278.
TD	52.	R. Putatunda et al., VITAL: Fully Automatic Placement Strategies for Very Large Semicustom Designs, Proceedings of the International Conference on Computer Design: VLSI in Computers and Processors, pp 434-439 October 1988.
TD	53.	S. Dutt, et al., Probability-Based Approaches to VLSI Circuit Partitioning, IEEE Trans. on Computer-Aided Design of IC's and Systems, Vol. 19, No. 5, May 2000, pp 534-549.
TP	54.	Y. Sekiyama et al., Timing-Oriented Routers for PCB Layout Design of High-Performance Computers, International Conference on Computer Aided Design, pp 332-335, November 1991.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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<p style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p style="text-align: center;">(use as many sheets as necessary)</p>				Filing Date	10-0790(6)
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	<i>TD</i>
				Sheet	1

RELATED U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Related Application Data
		Number	Date of filing MM-DD-YYYY		
TD	1.	2002/0133798	12-06-2000	Steven Teig et al.	Present application is a CIP of 2002/0133798.
TD	2.	2002/0100007	12-06-2000	Steven Teig et al.	Present application is a CIP of 2002/0100007.
TD	3.	2002/0073390 S/N 09/737,210	12-13-2000	Steven Teig et al.	Continuation of parent 2002/0133798
TD	4.	Preliminary Amendment S/N 09/737,210	12-13-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0073390 does not accurately reflect the claims of S/N 09/737,210.
TD	5.	S/N 09/737,220	12-13-2000	Steven Teig et al.	Continuation of parent 2002/0133798
TD	6.	S/N 09/737,245	12-13-2000	Steven Teig et al.	Continuation of parent 2002/0133798
TD	7.	S/N 09/739,460	12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	8.	2002/0124231 S/N 09/739,580	12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	9.	Preliminary Amendment S/N 09/739,580	12-15-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0124231 does not accurately reflect the claims of S/N 09/739,580.
TD	10.	S/N 09/739,589	12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	11.	S/N 09/742,171	12-19-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	12.	2003/0121015 S/N 09/745,067	12-19-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	13.	Preliminary Amendment S/N 09/745,067	12-19-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0121015 does not accurately reflect the claims of S/N 09/745,067.
TD	14.	2002/0069397	01-13-2002	Steven Teig et al.	CIP of 2002/0100007 & 2002/0133798.
TD	15.	2002/0157075	02-20-2002	Steven Teig et al.	CIP of 2002/0100007 & 2002/0133798.

Examiner Signature	<i>Made</i>	Date Considered	8-25-04
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Substitute for form 1449A/PTO				Application Number	10/079,061
				Filing Date	2/20/02
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	Do
Sheet	2	of	4	Attorney Docket Number	SPLX.P0126

RELATED U.S. PATENT DOCUMENTS					
TD	16.	2003/0088841 S/N 10/329,241	12-23-2002	Steven Teig et al.	CIP of 2002/0133798
	17.	Preliminary Amendment S/N 10/329,241	12-23-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088841 does not accurately reflect the claims of S/N 10/329,241.
	18.	2003/0018947	12-07-2001	Steven Teig et al.	Application regarding related routing technology
	19.	2002/0147958	10-19-2001	Steven Teig et al.	Application regarding related routing technology
	20.	2003/0079193	12-07-2001	Steven Teig et al.	Application regarding related routing technology
	21.	2003/0063614	01-04-2002	Steven Teig et al.	Application regarding related routing technology
	22.	2003/0064559	01-04-2002	Steven Teig et al.	Application regarding related routing technology
	23.	2003/0063568	01-04-2002	Steven Teig et al.	Application regarding related routing technology
	24.	2003/0101428 S/N 10/040,915	01-05-2002	Steven Teig et al.	Application regarding related routing technology
	25.	Preliminary Amendment S/N 10/040,915	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0101428 does not accurately reflect the claims of S/N 10/040,915.
	26.	2002/0166105 S/N 10/040,948	01-05-2002	Steven Teig et al.	Application regarding related routing technology
	27.	Preliminary Amendment S/N 10/040,948	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0166105 does not accurately reflect the claims of S/N 10/040,948.
	28.	2003/0043827 S/N 10/040,953	01-05-2002	Steven Teig et al.	Application regarding related routing technology
TD	29.	Preliminary Amendment	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0043827 does not

Examiner Signature	<i>Teig</i>	Date Considered	8-25-04
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SUBSTITUTE FOR FORM 1449				10-07961
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date
(use as many sheets as necessary)				2/20/02
Sheet	3	of	4	First Named Inventor
				Steven Teig
				Group Art Unit
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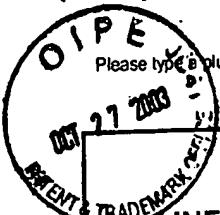
RELATED U.S. PATENT DOCUMENTS					
+D	S/N 10/040,953				accurately reflect the claims of S/N 10/040,953.
30.	2003/0023943 S/N 10/040,954	01-05-2002	Steven Teig et al.	Application regarding related routing technology	
31.	Preliminary Amendment S/N 10/040,954	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0023943 does not accurately reflect the claims of S/N 10/040,954.	
32.	2003/0066042 S/N 10/040,963	01-05-2002	Steven Teig et al.	Application regarding related routing technology	
33.	Preliminary Amendment S/N 10/040,963	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0066042 does not accurately reflect the claims of S/N 10/040,963.	
34.	2002/0174412 S/N 10/041,942	01-07-2002	Steven Teig et al.	Application regarding related routing technology	
35.	Preliminary Amendment S/N 10/041,942	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0174412 does not accurately reflect the claims of S/N 10/041,942.	
36.	2003/0088844 S/N 10/041,957	01-07-2002	Steven Teig et al.	Application regarding related routing technology	
37.	Preliminary Amendment S/N 10/041,957	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088844 does not accurately reflect the claims of S/N 10/041,957.	
38.	2002/0199165 S/N 10/046,864	01-13-2002	Steven Teig et al.	Application regarding related routing technology	
39.	Preliminary Amendment S/N 10/046,864	01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0199165 does not accurately reflect the claims of S/N 10/046,864.	
+D	40. 2003/0066043	01-13-2002	Steven Teig et al.	Application regarding related routing technology	

Examiner Signature	Miranda	Date Considered	8-25-04
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RELATED U.S. PATENT DOCUMENTS						
<i>TD</i>	41.	2003/0115566	01-13-2002	Steven Teig	Application regarding related routing technology	
	42.	2003/0056187 S/N 10/047,982	01-14-2002	Steven Teig et al.	Application regarding related routing technology	
	43.	Preliminary Amendment S/N 10/047,982	01-14-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0056187 does not accurately reflect the claims of S/N 10/047,982.	
	44.	2003/0066044	01-13-2002	Steven Teig et al.	Application regarding related routing technology	
	45.	2003/0066045	01-13-2002	Steven Teig et al.	Application regarding related routing technology	
	46.	2003/0088845 S/N 10/047,978	01-13-2002	Steven Teig et al.	Application regarding related routing technology	
<i>TD</i>	47.	Preliminary Amendment S/N 10/047,978	01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088845 does not accurately reflect the claims of S/N 10/047,978.	

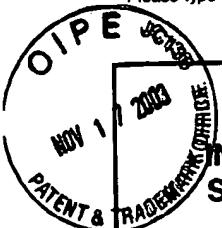
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/079,061
Sheet	1	of	7	Filing Date	2/20/02
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	<i>TD</i>
				Attorney Docket Number	SPLX.P0126

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document Number	Kind Code* (if known)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>TD</i>	1.	2001/0009 031	A1	07-19-2001	Nitta et al.	
	2.	2002/0182 844	A1	12-05-2002	Igarashi et al.	
	3.	2003/0025 205	A1	02-06-2003	Shively	
	4.	2003/0005 399	A1	01-02-2003	Igarashi et al.	
	5.	4,593,363		06-03-1986	Burstein et al.	
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	8.	5,375,069		12-20-1994	Satoh et al.	
	9.	5,587,923		12-24-1996	Wang	
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	11.	5,633,479		05-27-1997	Hirano	
	12.	5,637,920		06-10-1997	Loo	
	13.	5,640,327		06-17-1997	Ting	
	14.	5,663,891		09-02-1997	Bamji et al.	
	15.	5,757,089		05-26-1998	Ishizuka	
	16.	5,784,289		07-28-1998	Wang	
	17.	5,798,936		08-25-1998	Cheng	
	18.	5,838,583		11-1998	Varadarajan et al.	
	19.	5,889,677		03-30-1999	Yasuda et al.	
<i>TD</i>	20.	5,980,093		11-09-1999	Jones et al.	

Examiner Signature	<i>Murando</i>	Date Considered	8/25/04
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				Filing Date	2/20/02
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	<i>DO</i>
Sheet	2	of	7	Attorney Docket Number	SPLX.P0126

U.S. PATENT DOCUMENTS					
✓	21.	6,070,108		05-30-2000	Andreev et al.
	22.	6,128,767		10-03-2000	Chapman
	23.	6,209,123	B1	03-27-2001	Maziasz et al.
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	27.	6,324,675	B1	11-27-2001	Dutta et al.
	28.	6,327,693	B1	12-04-2001	Cheng et al.
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	30.	6,330,707		12-11-2001	Shinomiya et al.
	31.	6,378,121	B1	04-23-2002	Hiraga
	32.	6,407,434	B1	06-18-2002	Rostoker et al.
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	35.	6,442,743	B1	08-27-2002	Sarrafzadeh et al.
	36.	6,448,591	B1	09-10-2002	Juengling
	37.	6,473,891	B1	10-29-2002	Shively
	38.	6,480,991	B1	11-12-2002	Cho et al.
	39.	6,490,713	B2	12-03-2002	Matsumoto
	40.	6,519,751	B2	02-11-2003	Sriram et al.
	41.	6,543,043	B1	04-01-2003	Wang et al.
	42.	6,546,540	B1	04-08-2003	Igarashi et al.
✓	43.	6,557,145	B2	04-29-2003	Boyle et al.

Examiner Signature	<i>Murando</i>	Date Considered	8/25/04
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				Examiner Name	DO
Sheet	3	of	7	Attorney Docket Number	SPLX.P0126

U.S. PATENT DOCUMENTS					
TD	44.	6,567,967	B2	05-20-2003	Greidinger et al.

FOREIGN PATENT DOCUMENTS							
Examiner's Initials	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Office ³	Number ⁴				Kind Code (if known)
TD	45.	JP	411296560	A	Matsumoto et al.	10-29-1999	with English translation of Abstract;
TD	46.	JP	2000-82743	A	Igarashi et al.	03-21-2000	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.
TD	47.	JP	H03-173471	A	Tawada et al.	07-26-1991	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.
TD	48.	JP	H05-243379	A	Masako Kubota	09-21-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.
TD	49.	JP	H05-102305	A	Akihiro Sato	04-23-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.

Examiner Signature	Murado	Date Considered	8-25-04
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						First Named Inventor	Steven Teig
						Group Art Unit	2825
						Examiner Name	<i>AS</i>
Sheet	4	of	7	Attorney Docket Number			SPLX.P0126

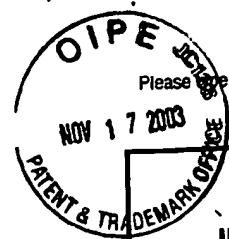
FOREIGN PATENT DOCUMENTS							
<i>TD</i>	50.	JP	H07-86407	A	Shinpei Miura	03-31-1995	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. <input checked="" type="checkbox"/>
<i>TD</i>	51.	JP	H09-162279	A	Masaaki Yoshida	06-20-1997	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. <input checked="" type="checkbox"/>

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				Examiner Name	DO
Sheet	5	of	7	Attorney Docket Number	SPLX.P0126

FOREIGN PATENT DOCUMENTS

NON-PATENT LITERATURE DOCUMENTS

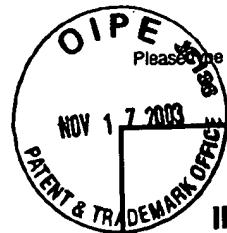
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
TD	52.	Ahuja, R. et al., Faster Algorithms for the Shortest Path Problem, Journal of the Association for Computing Machinery, vol. 37, No. 2, April 1990, pp. 213-223.	
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Examiner Signature	Mando	Date Considered	8-25-04
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				Group Art Unit	2825
				Examiner Name	BD
Sheet	6	of	7	Attorney Docket Number	SPLX.P0126

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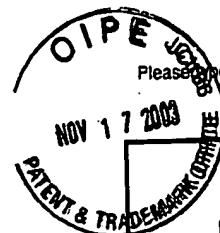
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Examiner Signature	Waldo	Date Considered	8-25-04
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